cannot but be of very great moment in the ſyſtem of the univerſe.

I am, Gentlemen, with all poſſible reſpect,

London, Feb. 12, 1752. Your moſt obedient humble ſervant,

W. Watſon.

LXII. *A Letter from Dr.* Bevis *to Dr.* De Caſtro, *F. R. S. containing Extracts of Father* Auguſtin Hallerſtein's *aſtronomical Obſervations made at* Pekin *in* 1744 *and* 1747.

Read March 5, 1752. I AM much obliged to you, Sir, for furthering F. Aug. Hallerſtein's letter to me. It informs me, that the inſtrument I wrote the deſcription and uſe of, was arrived ſafe at Pekin. According to that miſſionary's requeſt, I have carefully looked over the obſervations he ſent to Dr. Sanchez at Paris, to be communicated to the Royal Society through your hands. They are compariſons of all the planets with known fix'd ſtars taken in the Jeſuit's College at Pekin, in 1746 and 1747, with a well-adjuſted pendulum-clock, and a micrometer; and appear to me to have been done with judgment and accuracy

accuracy; ſo as, in my humble opinion, to merit the Royal Society's conſideration. I am,

Dear Sir,

Feb. 18, 1751.

Your obliged and

moſt obedient ſervant,

J. Bevis.

Obſervationes Lunæ 1747.

JAN. 1, mane, mox a media nocte, obſervata occultatio reguli (Bay α ♌) aluna ut ſequitur.

h	′	″		′	″
1	46	0	luna alta circ 59° capta ejus diameter	31	48
	55	29	diſt. α ♌ a limbo lucid. propiore lunæ	48	37
2	23	35	diſtantia ejuſdem ab eodem	37	25
	35	49		33	12
	49	53		27	20
3	0	10		23	18
	16	44		16	44

4 0 3 α ♌ immerſit poſt limbum lunæ lucidum in linea recta ducta per Grimaldi medium, et Copernici limbum ſuperiorem (ſitu recto) obſervata emerſio tubo 10 ped.

5 15 51 α ♌ emerſit de ſub lunæ limb. obſcuro in linea recta per limb. ſuperiorem Grimaldi, et inferiorem Copernici (ſitu erecto) obſervata emerſio una ſimul tubis 10 et 5 ped.

25 19 diſt. α ♌ a limb. remotiore lucid. lunæ 35 27
30 12 diſt. ejuſdem ab eodem 37 37
39 56 α ♌ in horario
42 23 lunæ limb. remotior lucidus in horario, eratque α ♌ borealior limbo auſtrino lunæ 34 3
6 15 0 capta rurſum diameter lunæ 31 40 alta circ. 43°.

Jan. 28. veſp. comparata luna cum ſtella ρ ♌, quæ a luna occultata fuerat, ſed immerſio quidem videri non potuit, luna poſt tectum templi adhucdum latente, itaque
9 29 57 emerſit ſtella de ſub parte obſcura lunæ, tum vero
34 42 ρ ♌ in horario
36 40 limb. lucid. lunæ remotior ortivus in horar. eratque ρ borealior limbo auſtrino remotiore lunæ 29 29
porro diameter lunæ per oblivionem non adnotata eſt.

Feb. 25, veſp. comparata luna cum Regulo ſive α ♌, quem illa quidem texerat, ſed neque immerſio viſa neque emerſio, luna poſt tectum templi latente; ſimul autem ac apparuit,
6 42 54 α ♌ in horario
44 0 margo occiduus lunæ in horario
45 56 macula Ariſtarchus in horar. auſtraliori ſtellæ α 0 12
3 2 differentia temporar. ſtellæ α ab Ariſtarcho
7 26 capta diameter lunæ 32 4
42 39 α ♌ in horar. accurate in eodem parallelo cum limbo lunæ, dum is poſtea circa horarium eſſet
47 28 Ariſtarch. in horar. auſtral. ſtella α ♌ 13 6

Cum

Cum ergo 7^h 47′ 28″ Ariſtarch. eſſet auſtralior ſtella α ♌ 13′ 6″, margo autem boreus lunæ, dum hujus centrum circa horarium eſſet, eundem præciſe parallelum decurreret, quem decurrerat ſtella α ♌ liquet Ariſtarchum margine boreo lunæ auſtraliorem fuiſſe itidem 13′ 6″. Erat autem idem Ariſtarchus orientalior margine occiduo lunæ 1′ 56″ penduli: hinc facile erit appulſum centri lunæ ad horarium eruere, habita jam diametro lunæ 32′ 4″.

Tempora quod attinet harum operationum, corrigenda ſunt ſingula, demendo 1′ 38″ penduli. Totidem enim anticipâſſe ſequenti meridie compertum eſt.

Obſervationes aſtronomicæ habitæ Pekini in Collegio S. J.

Obſervatio ♄ 1746.

	h	′	″		°	′	″
Nov. 28 mane	5	20	49	♄ occidentalior in ♏	0	3	0
				borealior		40	2
29	5	44	0	borealior in ♏		37	36
				diſtabat ab eadem		37	54

Obſervat. ♃ 1746.

Jul. 13 veſp.	8	0	0	♃ occident. ω Ophiuc.	0	12	32
				borealior		13	33
	8	15	0	diſtans ab ω		16	43
Aug. 25	8	0	0	♃ orientalior ω	0	1	30
				borealior		0	45
				diſtans ab ω		1	57
26	7	18	0	♃ orientalior ω	0	6	1
				borealior		0	0
				diſt.		5	28

	h	′	″			°	′	″
Aug. 28	8	15	0	☿	occidentalior ω	0	47	22
					borealior		15	17
29	8	15	0	☿	occidentalior ω	0	48	53
					borealior		15	18
☿ pene ſtationarius					diſt.		48	20
Aug. 4	9	0	0	☿	occidentalior ω	0	49	38
					borealior		14	3
					diſt.		49	30
5	8	0	0	☿	occidentalior ω	0	49	8
					borealior		13	39
					diſt.		48	10

Obſervationes ♂ 1746.

Sept. 29 mane	5	0	0	♂	orientalior α ♌	0	21	48
					borealior		45	53
					diſt.		50	9
Nov. 14 mane	4	59	56	♂	orientalior β ♏	0	49	38
					borealior		35	19
25	4	8	13	♂	occidentalior η ♏	0	41	7
					borealior		33	42
					diſt.		53	15
Dec. 20	3	12	12	♂	occidental. θ ♏	0	20	3
					borealior		6	9

Obſervationes ♀.

Nov. 5 veſp.	6	5	0	♀	occidentalior ſtella			
					quadam ignota	0	35	35
					eaque borealior		7	18
6	6	16	18		ignota heri occiden-			
					talior quam φ ♐	6	54	53
					eaque borealior		7	18

Nov.

		°	′	″			°	′	″
Nov. 7		5	51	41	♀ occidentalior	φ ♐	5	15	20
♀ elong. max. veſp. et					borealior			13	55
8		5	54	15	♀ occidentalior	φ ♐	4	23	13
♀ lat. max. auſt. et					borealior			14	54
11		5	38	50	♀ occidentalior	φ ♐	0	50	38
					borealior			21	5

Obſervatio ☿ 1746.

Dec. 10	veſp.	5	27	47	☿ occidentalior	♄ ♐	6	29	49
					borealior			14	11

Sedet hæc unica obſervatio ſubdubia.

Obſervationes ♄ 1747.

Jan. 2	mane	3	0	8	♄ occidentalior	in ♏	2	37	56
					auſtralior			15	33
Feb. 3	mane	1	48	20	♄ occidentalior	91 ♏	2	38	41
					et borealior			12	13
4		1	9	25	♄ occidentalior	95 ♏	2	38	41
					borealior			12	13
5		1	4	8	♄ occidentalior	95 ♏	2	38	26
					borealior			12	46
					♄ itaque jam retrogradus				
Apr. 5	mane	4	40	29	♄ orientalior	in ♏	1	11	57
					borealior			40	9
8		4	25	34	♄ orientalior	in ♏	0	58	38
					borealior			45	20
					♄ prope ♂ ☉ cum. max. lat. bor.				
Jun. 21	veſp.	8	15	19	♄ occident. I (74 ♏)		0	18	33
					auſtralior			28	17
		38	10		diſt.			33	51

Jun.

		°	′	″			°	′	″
Jun. 24		8	21	21	♄ occidental. 74 ♏		0	18	55
					auſtralior			29	3
	25	8	47	13	♄ occidentalior 74 ♏		0	18	48
					auſtralior			29	16
					♄ itaque directus				
Jul.	23	8	2	33	♄ orientalior 74 ♏		0	20	25
					et auſtralior			53	1

Obſervationes ♆ 1747.

Feb. 3	mane	6	6	48	♆ occidentalior 28 ♐		0	31	5
					et auſtralior			31	30
					diſt.			32	35
	13	5	39	38	♆ occidentalior ν ♐		0	17	47
					auſtralior			0	58
	28	5	37	26	♆ orientalior ο ♐		0	1	23
					auſtralior			47	5

Obſervationes ♂ 1747.

Jan.	5	mane	2	20	8	♂ occidentalior in ♏		0	24	4
						borealior			14	28
	6		3	13	17	♂ occidentalior in ♏		0	4	31
						borealior			3	31
Feb.	15		5	43	46	♂ orientalior μ ♎		0	6	1
						auſtralior			11	33
						cum max. lat. boreal.				
Apr.	30	mane	3	51	1	♂ orientalior α ♎		0	10	32
						borealior			11	22
♂☉♂		veſper	9	9	5	♂ occidentalior α ♎		0	5	16
						borealior			20	30
Maii	1	mane	3	55	0	♂ occidentalior α ♎		0	12	17
						borealior			21	44
	13	veſp.	8	16	24	♂ occidentalior μ ♎		4	28	44

			☊	′	″			′	″
Maii	13	♂ prope	68			auſtralior		38	4
	16		7	44	22	♂ occidentalior μ ♎	5	27	54
						auſtralior		26	34
Jun.	10	veſp.	8	21	17	♂ occid. λ ♏	2	19	53
						auſtralior		45	16
Oct.	27	veſp.	6	7	14	♂ occidentalior χ ♐	4	39	45
						borealior		12	18
Dec.	31	veſp.	6	7	13	♂ occident. σ ♒	0	54	8
						auſtralior		6	33

Obſervationes ♀ 1747.

Jan.	8	veſp.	5	41	20	♀ orientalior β ♍	1	4	41
						auſtralior		23	32
Mar.	5	mane	5	43	38	♀ occident. β ♍	0	13	32
						auſtralior		22	51

Obſervationes ☿ 1747.

Jan.	16	mane	6	4	53	☿ occidentalior ξ ♐	7	43	16
						borealior		24	13
	19		5	58	18	☿ occidentalior ξ ♐	5	49	13
						auſtralior		2	38
	23		6	3	5	☿ occidentalior ξ ♐	2	8	36
						auſtralior		33	34
	24		6	7	3	☿ occidentalior ξ ♐	1	4	41
						auſtralior		40	7
	25		5	55	18	☿ occidentalior ξ ♐	0	2	45
						auſtralior		45	24
				57	18	diſt. a ξ ♐		45	39
	26		6	18	37	☿ orientalior ξ ♐	1	16	12
						auſtralior		50	2

Jan.

	°	′	″		°	′	″
Jan. 26	6	26	35♀	occidentalior ☍	0	26	49
				et auſtralior		10	28
		31	56	diſtans ab eadem		26	52

Congreſſus planetarum obſervati 1747.

Jan. 13 mane	2	51	54♄	in horario			
		52	43♂	in horar. auſtral.		47	2
Dec. 6 veſp.	5	34	34♂	immerſit totaliter ſub limb. obſc. ☽			
				diſt. a cornu bor.		23	28
				tum lunæ diam.		32	53
	6	46	2♂	emerſit de ſub ☾ diſt. a cornu boreo ejuſdem.		29	24

LXIII. *Extracts of ſeveral Letters of* Mordach Mackenzie, *M. D. concerning the* Plague *at* Conſtantinople.

Dr. Clephane, *F. R. S. to the Rev. Mr.* Birch, *Secr. R. S.*

SIR, Golden-Square, Feb. 25, 1752.

Read March 5, 1752. BEFORE I tranſcribe my friend Dr. Mackenzie's letters relating to the late plague at Conſtantinople, it may not perhaps be improper to mention a few particulars concerning the plague in general, as I find them ſcatter'd up and down his former letters to me on that ſubject.

In